## CLAIMS

2	<ol> <li>A process for making composite parts comprising:</li> </ol>
3	separately de-bulking first and second covers made of multi-layers of
4	sheets filamentary material sheets pre-impregnated with a resin having a first
5	curing temperature;
6	forming a preform sandwich assembly by:
7	placing the first cover on a mold surface;
8	placing a first layer of adhesive on the first cover, said first layer
9	of adhesive, said first layer of adhesive having a second curing
10	temperature less than the first curing temperature;
11	positioning a honeycomb core material over said first layer of
12	adhesive;
13	placing a second layer of adhesive on the honeycomb core; and
14	placing the second cover on top of the second layer of adhesive
15	core, said second layer of adhesive having a second curing
16	temperature less than the first curing temperature;
17	vacuum bagging the assembly;
18	drawing a vacuum from within said vacuum bag;
19	initially heating the assembly at a heating rate of between 0.5 degree
20	and 2 degrees per minute until the gel temperature of said adhesive is
21	reached;
22	holding the temperature at the gel temperature until the layer of
23	adhesive has cured;
24	raising the temperature to the first curing temperature of the resin; and
25	maintaining the temperature at the first curing temperature until the
26	resin has cured

- 1 2. The process of claim 1 where in the step of drawing a vacuum from
- within said vacuum bag the vacuum is a minimum of 25 inches of Hg.
- 3 3. The process as set forth in claim 2 wherein the resin in the first curing
- 4 temperature is 350 °F.
- 5 4. The process as set forth in claim 3 wherein in said step of the initially
- 6 heating the assembly at a heating rate of between 0.5 degree and 2 degrees
- 7 per minute until the gel temperature of said adhesive is reached, the rate of
- 8 heating is 1 degree per minute.
- 9 5. The process as set forth in claim 4 wherein prior to the step vacuum
- 10 bagging the assembly, the steps:
- forming a resin containment dam about the preform;
- providing a path through dam such that a vacuum can be drawn from
- 13 within the containment dam.
- 14 6. The process as set forth in claim 5 wherein the distance from the dam
- to the preform is a maximum of 0.06 inch.